

# Provincial Events – Developers Guide

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## Pre-requisites

Working on the assumption that we are working with a blank canvas, the following things must be installed on any system (regardless of platform):

### MySql

This comes pre-installed on many hosted linux servers (like Plesk Centos).

If you don't have it installed then you need to do a platform specific install of MySql by following the relevant downloads and instructions from <http://dev.mysql.com/downloads/>

If you are a developer working on a Windows PC it is very useful to obtain MySql by simply downloading and installing XAMPP from <https://www.apachefriends.org/index.html>

With this you get lots of goodies, including Apache, PHP and PHPMyAdmin for administering your MySql databases. We don't actually need Apache for Square Events but it is useful to have.

### Node

Install the latest version of Node from <https://nodejs.org/en/download/>

### Git

Used for all source change management: <https://git-scm.com/downloads>

Background reading: <http://readwrite.com/2013/09/30/understanding-github-a-journey-for-beginners-part-1>

### GitHub

If you have not already got an account, register at <https://github.com/>

An important URL for future use is the repo(sitory) for the Square Events application: [https://github.com/kpturner/sails\\_events.git](https://github.com/kpturner/sails_events.git)

## Windows

If you are a developer working on a Windows PC, the following tools are useful additions to your armoury for developing and testing:

### TortoiseGit

By no means an essential tool but quite useful for a Windows Explorer GUI interface to Git (which is primarily a command line tool): <https://tortoisegit.org/>

### PuTTY for Windows

<http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html>

### Visual Studio Code

If you don't already have a favourite editor, this is a very nice lightweight editor to use with many languages: <https://code.visualstudio.com/>

If you install this, be sure to allow it to add an option to windows explorer to enable you to open resources with vs code from the context menu.

We also need to make a small config change:

Edit the following file

C:\Program Files (x86)\Microsoft VS Code\resources\app\extensions\html\package.json

Change the “extensions” JSON property so it looks like this:

```
"extensions": [ ".html", ".htm", ".shtml", ".mdoc", ".jsp", ".asp", ".aspx", ".jshtm", ".rml", ".ejs" ],
```

Copy

C:\Program Files (x86)\Microsoft VS Code\resources\app\extensions\html

to

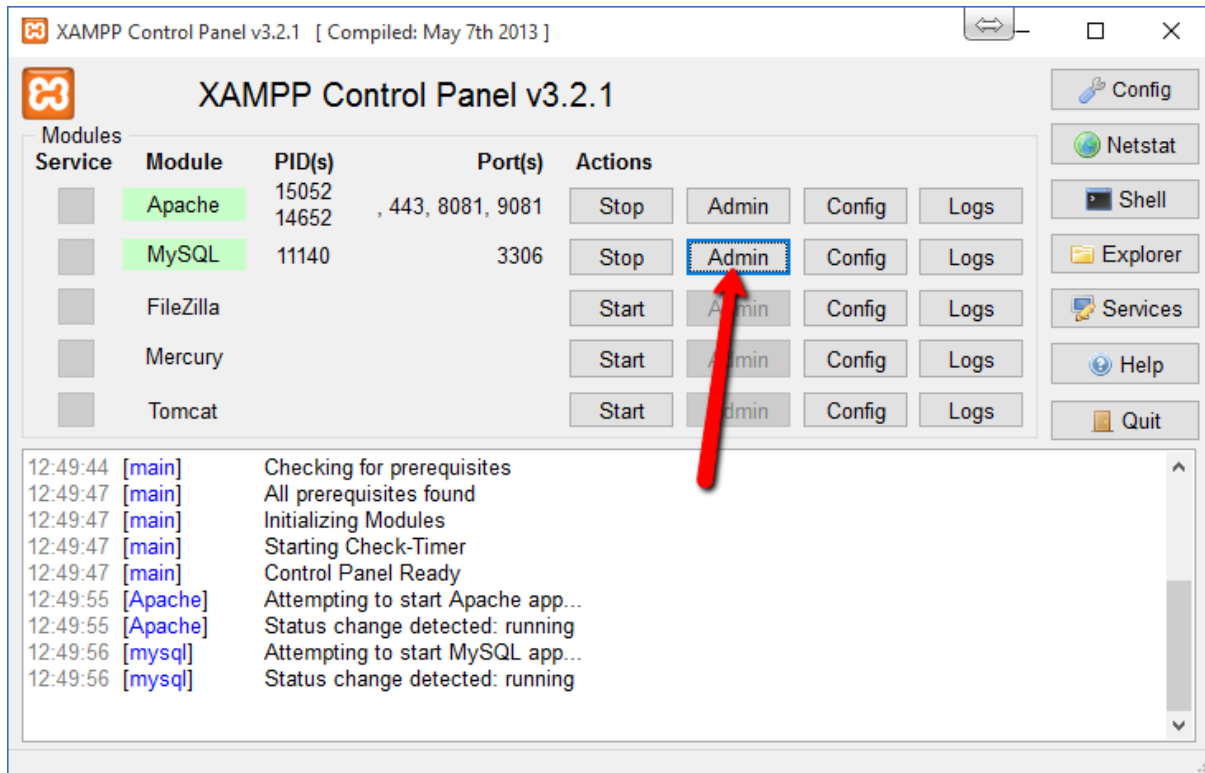
C:\Users\<user>\.vscode\extensions

## Setting up a development environment

### Database

First of all you need to create an empty MySQL database called **squareevents** and a user with all necessary privileges to that database called **squareevents@localhost** with a password of **<obfuscated>**.

If you have downloaded XAMPP then the easiest and quickest way is to use PHPMyAdmin to set this up. From the control panel, you can start MySQL and then click "Admin" to get into PHPMyAdmin:



### Get the source code

Start up a command prompt window and as a one off exercise, register yourself with your preferred name and email address:

```
git config --global user.name "Your Name Here"
git config --global user.email "your_email@youremail.com"
```

After this is complete, navigate to your default document location which, in windows, will be `c:\users\<user>`

From here create the following directory structure and navigate there:  
`c:\users\<user>\sails\projects`

Whilst in the `\sails\projects` directory, we will clone the git repo from GitHub like so:

```
git clone https://github.com/kpturner/sails\_events.git events
```

Navigate to

```
c:\users\<user>\sails\projects\events
```

The git repo (i.e. the code) will be in this folder.

The next thing to do is make sure all the node packages required are installed on the system.

Assuming you have installed node successfully, we will start with globally installing <http://sailsjs.org/> using NPM

Key in the following (very important to specify the `-g` option):

```
npm install sails -g
```

Once this is installed, we will install all the packages locally required by the square events application:

```
npm install
```

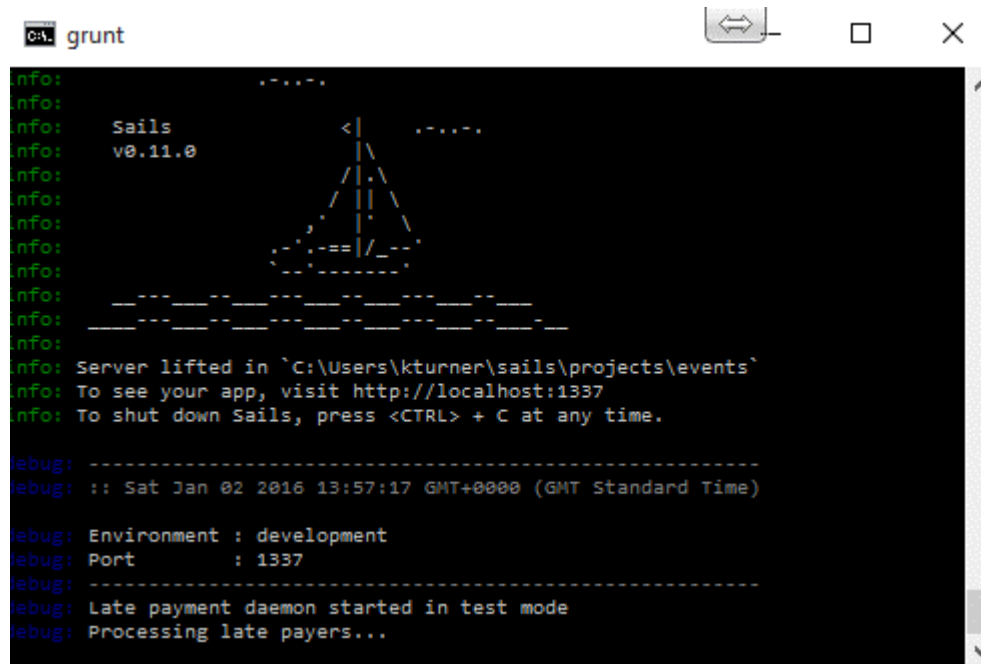
## Running the application

Assuming you are still in the `c:\users\<user>\sails\projects\events` directory, we can start the application. This will also automatically build/update the database, assuming you have already created the empty **squareevents** database and created the **squareevents@localhost** user with a password of `<obfuscated>`.

Use the following command to fire everything up:

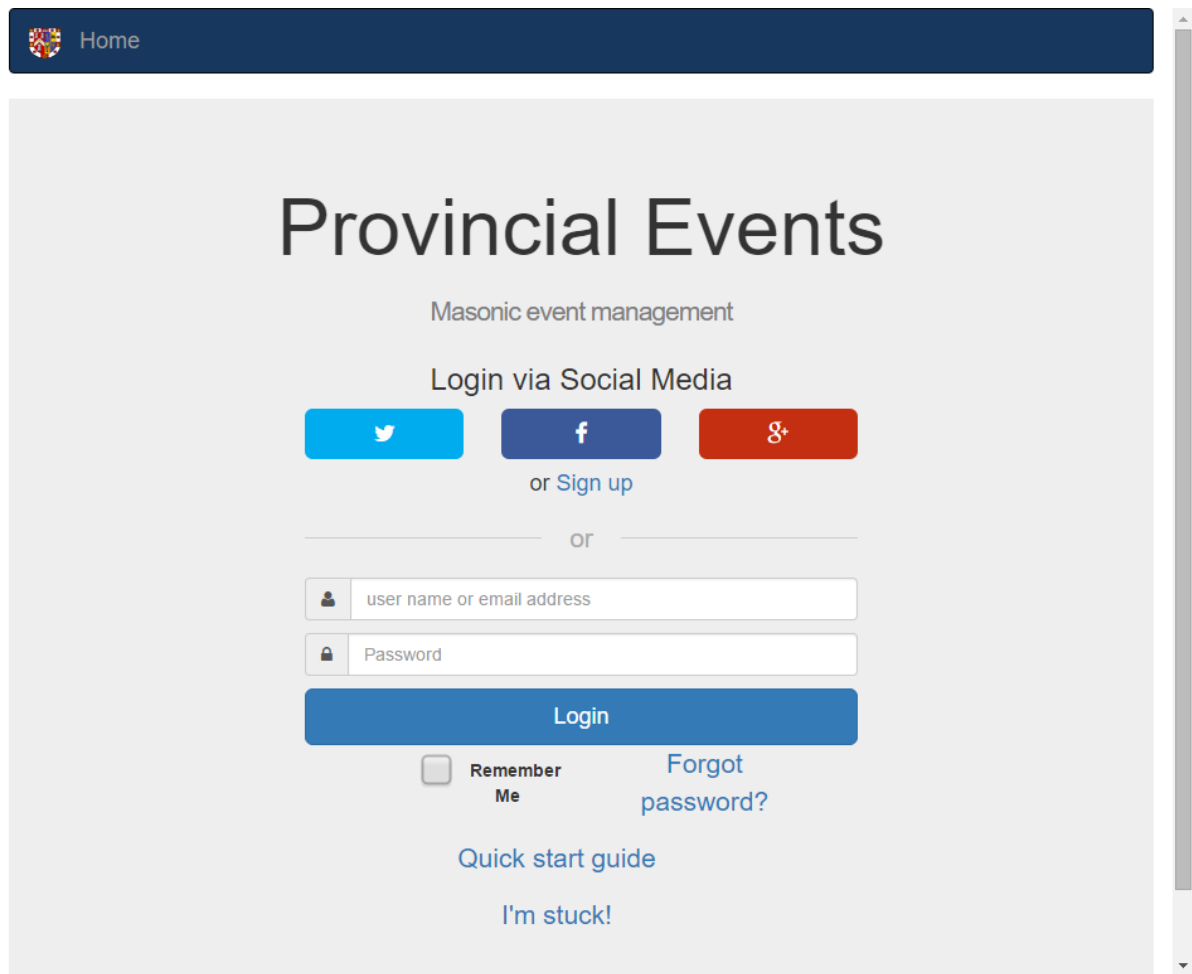
```
sails lift
```

All being well:



```
cmd - grunt
info:
info:
info:   Sails
info:   v0.11.0
info:
info:
info:
info:
info:
info:
info:
info:
info: Server lifted in `C:\Users\kturner\sails\projects\events`
info: To see your app, visit http://localhost:1337
info: To shut down Sails, press <CTRL> + C at any time.
debug: -----
debug: :: Sat Jan 02 2016 13:57:17 GMT+0000 (GMT Standard Time)
debug: Environment : development
debug: Port        : 1337
debug: -----
debug: Late payment daemon started in test mode
debug: Processing late payers...
```

You should now be able to run <http://localhost:1337> and see the application fire up in your default browser:

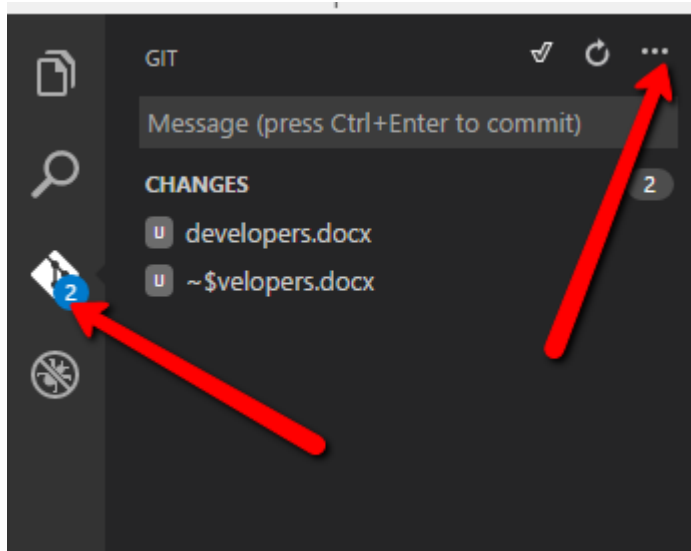


The screenshot shows a web browser window displaying the 'Provincial Events' application. At the top, there is a dark blue navigation bar with a 'Home' link and a small crest icon. The main content area has a light gray background. The title 'Provincial Events' is prominently displayed in a large, dark font. Below the title, the subtitle 'Masonic event management' is shown in a smaller, gray font. The 'Login via Social Media' section features three buttons for Twitter, Facebook, and Google+, followed by a link to 'Sign up'. A horizontal line with the word 'or' separates this from the standard login form. The login form includes two input fields: 'user name or email address' and 'Password'. Below these fields is a large blue 'Login' button. To the left of the 'Login' button is a checkbox labeled 'Remember Me'. To the right is a link for 'Forgot password?'. At the bottom of the form, there are two links: 'Quick start guide' and 'I'm stuck!'. A vertical scrollbar is visible on the right side of the browser window.

### Editing the code

Assuming you will use VS Code to edit the code, the easiest thing to do is to use windows explorer to navigate to C:\Users\<user>\sails\projects folder, right click on the events folder and take the “Open with code” option.

To pull updates from GitHub you can click on the Git interface button in the left hand options then, from the menu in the top right hand corner, and take the “pull” option. This will pull the latest updates from GitHub.





## Putting changes into production

Currently the application is running on my own Centos Server (running Plesk) hosted by Poundhosts.

The hostname is kpturner.co.uk

I use PuTTY to deploy changes and start/stop the server. In windows you can just run putty.exe and then open an SSH connection to kpturner.co.uk on port 22.

Login with the supplied user id and password (to be provided) then:

Change to correct location:

```
cd /usr/sails/projects/events
```

Pull latest updates from GitHub:

```
bash gitupdate.sh
```

Stop the service:

```
service events-service stop
```

The next two commands are only required if database updates need to be implemented:

```
sails lift
```

```
ctrl-c
```

Start the service again:

```
service events-service start
```

## Notes on setting up a Linux server

Look at the **installing\_on\_centos.txt** file located in the `sails/projects/events` folder.